

CLEAN VERSION OF CLAIMS

1-120 (Cancelled)

121. (Previously Presented) A device comprising:
at least one vertically oriented carbon nanotube;
at least one horizontal conductive layer, wherein the said horizontal conductive layer is electrically coupled to said vertically oriented carbon nanotube; and
wherein the said horizontal conductive layer includes patterned lines.

122. (Previously Withdrawn)

123. (Previously Withdrawn).

124. (Previously Presented) A device of claim 121, wherein said carbon nanotube is conductive.

125. (Previously Presented) A device of claim 121, wherein said horizontal conductive layer material comprises a member of the class consisting of aluminum, copper, tungsten, titanium, nickel, chromium, and their alloys.

126. (Previously Presented) A device comprising:
at least one vertically aligned carbon nanotube, wherein said vertically aligned carbon nanotube is fabricated within vertically aligned holes within a substrate material;
at least one horizontal conducting interconnect, wherein said interconnect is electrically coupled to said vertically aligned carbon nanotube; and
wherein a plurality of said vertically aligned carbon nanotubes form a pattern in the said substrate material.

127. (Previously Presented) A device of claim 126, wherein said substrate material comprises a member of the class consisting of silicon, silicon nitride, silicon dioxide, aluminum, alumina, and gallium arsenide.

128. (Previously Withdrawn)

129. (Cancelled)

130. (Cancelled)

131. (Cancelled)

132. (Previously Withdrawn)

133. (Previously Presented) A device having plurality of carbon nanotubes in a substrate comprising:

- a first carbon nanotube;

- a second carbon nanotube; and

- wherein said first carbon nanotube crosses path with said second carbon nanotube at a point such that said first carbon nanotube and said second carbon nanotube are electrically coupled.

134. (Previously Presented) A device comprising:

- at least one vertically oriented carbon nanotube embedded in a substrate, wherein the said nanotube is protruding from the said substrate;

- at least one horizontal conductive layer, wherein the said horizontal conductive layer is electrically coupled to said vertically oriented carbon nanotube; and

- wherein the said horizontal conductive layer includes patterned lines.

135. (Previously Presented) A device comprising:

- at least one vertically oriented carbon nanotube, wherein said carbon nanotube is conductive; and

- at least one horizontal conductive layer, wherein the said horizontal conductive layer is electrically coupled to said vertically oriented carbon nanotube.

136. (Previously Presented) A device of claim 135, wherein the said horizontal conductive layer includes a blanket deposited film.